

Appl. No. 10/625,649
Amdt. Dated Dec. 21, 2005
Reply to Office Action of Sep. 21, 2005

Amendments to the Claims:

This listing of claims will replace all prior versions, and listing, of claims in the application.

Listing of Claims:

Claim 1 (currently amended): A cable assembly comprising:
an insulative housing defining a plurality of cavities;
a plurality of contacts received in corresponding cavities of the housing, each contact comprising an intermediate portion, a central contact beam extending from adjacent one end of the intermediate portion, a pair of side contact beams extending from two opposite sides of the intermediate portion and a tail portion extending from an opposite end of the intermediate portion, the central contact beam having a deflectable and curved contacting portion at a free end thereof, said free end being apart from the said intermediate portion a predetermined distance in a vertical direction; and

a plurality of cables terminated to the tail portions of corresponding contacts.

Claim 2 (original): The cable assembly as claimed in claim 1, wherein the side contact beams comprise a pair of vertical arms located at opposite sides of the central contact beam and a pair of resilient arms extending rearwardly from the vertical arms and having connecting portions extending toward each other.

Claim 3 (original): The cable assembly as claimed in claim 2, wherein the housing defines a pair of channels at upper corners of the cavity, and the vertical arms have a pair of ribs at top ends thereof received in the channels.

Claim 4 (original): The cable assembly as claimed in claim 3, wherein the housing defines a pair of slits at lower corners of the cavity, and the

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intermediate portion has opposite side edges received in the slits.

Claim 5 (canceled)

Claim 6 (currently amended): The cable assembly as claimed in claim [[5]]4, wherein the central contact beam is punched out of the intermediate portion to extend upwardly and rearwardly, and the contacting portion has a curved surface for electrically contacting with a complementary contact.

Claim 7 (original): The cable assembly as claimed in claim 2, wherein the cable includes an inner conductive core and an outer insulator surrounding the inner conductive core, the cable having an exposed conductive core at one end thereof, and wherein the tail portion comprises two pairs of gripping wings respectively crimped onto the exposed conductive core and the insulator.

Claim 8 (original): The cable assembly as claimed in claim 1, wherein the housing is formed with a plurality of latching bosses on a top thereof adapted for being received in a corresponding latching slot of a complementary connector.

Claim 9 (currently amended): An electrical contact for use in an electrical connector, comprising:

an intermediate portion having a front end and a rear end;
a pair of side contact beams extending from two opposite sides of the intermediate portion adjacent to the front end thereof;
a central contact beam disposed between the side contact beams and having a deflectable and curved contacting portion at a free end thereof, said free end being apart from the said intermediate portion a predetermined distance in a vertical direction; and
a tail portion extending from the rear end of the intermediate portion.

Claim 10 (original): The electrical contact as claimed in claim 9, wherein the side contact beams comprise a pair of vertical arms located at opposite sides of the central contact beam and a pair of resilient side arms

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extending rearwardly from the vertical arms and having connecting portion extending toward each other.

Claim 11 (original): The electrical contact as claimed in claim 10, wherein the central contact beam is punched out of the intermediate portion to extend upwardly and rearwardly.

Claim 12 (currently amended): An electrical connector comprising:
an insulative housing defining a plurality of cavities extending therethrough in a front-to-back direction;
plural pairs of vertical channels extending forwardly from a rear face of the housing and in communication with the corresponding cavities, respectively;
plural pairs of horizontal slits extending forwardly from the rear face of the housing and in communication with the corresponding cavities, respectively;

a plurality of contacts forwardly inserted into the corresponding cavities from the rear face, respectively, each of said contacts including:
a horizontal planar intermediate portion having two opposite side edges received in the corresponding pair of slits, respectively;
a pair of vertical arms extending vertically from two sides of the intermediate portion with a pair of tips received in the corresponding channels, respectively;
a central contact beam obliquely extending from the intermediate portion between said pair of ~~contact beams~~ vertical arms; and
a pair of resilient side arms horizontally extending from the pair of vertical arms, respectively, toward each other.

Claim 13 (original): The connector as claimed in claim 12, wherein tips of said central contact beam and said pair of side arms are located close to each other.

Claim 14 (original): The connector as claimed in claim 12, wherein said central contact beam extends rearwardly from a front portion of the

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intermediate portion.

Claim 15 (original): The connector as claimed in claim 12, wherein said pair of side arms extend rearwardly.

Claim 16 (new): The connector as claimed in claim 12, wherein said central contact beam is punched out of the intermediate portion between said pair of vertical arms so as to result in a corresponding opening in said intermediate portion

Claim 17 (new): The connector as claimed in claim 12, wherein said central contact beam and the pair of resilient side arms constitute three-point contact.